CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/W.No10/ER/CSR-1/734a/CEMENT/2014-15 Date: 15.01.2015

TEST REPORT ON CEMENT

*** CUSTOMER**	:	**Asst. Executive Engineer**, Vidyaranyapura Sub Division, BBMP, Bangalore.
***AGENCY**	:	**Mr. E. Rameshanand,** Contractor, Bangalore.
***NAME OF THE WORK**	:	Improvements to Roads, drains and covering slab at Chamundeshwari Layout 6th Main Road right side in Ward No.10 (Doddabommasandra), Vidyaranyapura Sub Division, BBMP, Bangalore.
***REFERENCE**	:	AEE/VPN/462/5/2014-15 Dated: 13.01.2015
SAMPLE ID	:	Cement - (Sample 2)
SAMPLE RECEIVED ON	:	13.01.2015
PERIOD OF TESTING	:	13.01.2015 to 15.01.2015

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988(RA-2009)	31.00 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988(RA-2009)	160 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988(RA-2009)	490 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) 1988(RA-2009)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

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Job No.: CTCE/BBMP/W.No10/ER/CSR-1/734a/SAND-Gradation/2014-15 : 15.01.2015

TEST REPORT ON DETERMINATION GRADATION OF FINE AGGREGATES

*** Customer** : **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.

*** Agency** : **Mr. E. Rameshanand,** Contractor, Bangalore.

*** Name of Work** : Improvements to Roads, drains and covering slab at Chamundeshwari Layout 6th Main Road right side in Ward No.10 (Doddabommasandra), Vidyaranyapura Sub Division, BBMP, Bangalore.

Reference : AEE/VPN/462/5/2014-15 Dated: 13.01.2015

Technical Reference : IS : 2386 Part 1 - 1963 RA-2007

Sample ID : Fine Aggregates - (Sample 2)

Sample Received on : 13.01.2015

Date of Testing : 15.01.2015

Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	93.50	90-100	90-100	90-100	95-100
2.36	73.00	60-95	75-100	85-100	95-100
1.18	50.50	30-70	55-90	75-100	90-100
600 Micron	36.50	15-34	35-59	60-79	80-100
300 Micron	16.20	5-20	8-30	12-40	15-50
150 Micron	5.40	0-10	0-10	0-10	0-15

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Remarks : This sample is under Zone-II specific limits.

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Job No.: CTCE/BBMP/W.No10/ER/CSR-1/734a/AGG/GR/2014-15 : 15.01.2015

TEST REPORT ON DETERMINATION GRADATION OF COARSE AGGREGATES

*** Customer** : **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.

*** Agency** : **Mr. E. Rameshanand,** Contractor, Bangalore.

*** Name of Work** : Improvements to Roads, drains and covering slab at Chamundeshwari Layout 6th Main Road right side in Ward No.10 (Doddabommasandra), Vidyaranyapura Sub Division, BBMP, Bangalore.

Reference : AEE/VPN/462/5/2014-15 Dated: 13.01.2015

Technical Reference : IS : 2386 Part 1 -1963 RA-2007

Sample ID : Coarse Aggregates (40mm) - (Sample 2)

Sample Received on : 13.01.2015

Date of Testing : 15.01.2015

Total Wt. of Aggregates in gms= **10000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	96.15	95-100	85-100
20	45.95	30-70	0-20
10	16.10	10-35	0-5
4.75	1.85	0-5	-

* Information is furnished by the Customer/Representative

Remarks : This sample is under Graded specific limits.

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Job No.: CTCE/BBMP/W.No10/ER/STEEL/2014-15 15.01.2015

TEST REPORT ON REINFORCEMENT STEEL

Customer	:	**Asst. Executive Engineer**, Vidyaranyapura Sub Division, BBMP, Bangalore.
Agency	:	**Mr. E. Rameshanand,** Contractor, Bangalore.
Name of the work	:	Improvements to Roads, drains and covering slab at Chamundeshwari Layout 6th Main Road right side in Ward No.10 (Doddabommasandra), Vidyaranyapura Sub Division, BBMP, Bangalore.
Reference	:	AEE/VPN/462/5/2014-15 Dated: 13.01.2015
Date of Test	:	15.01.2015
Technical Reference	:	IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm²	Tensile strength (Ultimate stress) N/mm²	Elongation percent gauge length		
1	10	0.62	513	556	13.10	O.K	O.K

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Job No.: CTCE/BBMP/W.No10/ER/CSR-1/734a/CUBE/2014-15 17.02.2015

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

*** Customer** : **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.

*** Agency** : **Mr. E. Rameshanand,** Contractor, Bangalore.

*** Name of the work** : Improvements to Roads, drains and covering slab at Chamundeshwari Layout 6th Main Road right side in Ward No.10 (Doddabommasandra), Vidyaranyapura Sub Division, BBMP, Bangalore.

*** Reference** : AEE/VPN/462/5/2014-15 Dated: 13.01.2015

*** Sample ID** : Drain Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

*** Grade of Concrete** : M_{20}

Compressive Strength as on : 28th day

Sample Received on : 20.01.2015

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	20.01.2015	17.02.2015	8.447	524.7	23.32
2	20.01.2015	17.02.2015	8.325	495.2	22.01
3	20.01.2015	17.02.2015	8.214	479.5	21.31

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